ELSEVIER

Thin Solid Films 266 (1995) 311–312

thin solid films

Author Index of Volume 266

Adams, D.P., 52
Agnihotri, O.P., 219
Ameziane, E.L., 224
Ando, Y., 292
Angelova, A., 99
Ankner, J.F., 69
Azizan, M., 224

Baarslag, P.C., 145, 152
Baik, S., 205
Balasubramanian, C., 62
Banerjee, H.D., 215
Barberka, T.A., 234
Bardon, J.P., 58
Barrallier, L., 245
Batty, S.V., 96
Baud, G., 198
Ben Taleb, A., 119
Berzina, T.S., 69
Besse, J.P., 198
Bilello, J.C., 52
Blonder, R., 254
Bonnet, J.-P., 20
Brett, M., 83
Brunel, M., 224
Budniok, A., 113

Carpio, R., 238
Chao, S., 282
Chari, K.S., 219
Chaudhuri, J., 189
Chen, Y., 173
Chernigov, L., 285
Chi, Y.B., 307
Cho, N.-H., 140
Choi, D.-J., 192
Choi, J.-B., 129
Chopra, D.R., 298
Chourasia, A.R., 298
Clemente, R.R., 20
Cueff, R., 198

Daams, J.L.C., 145, 152
Danes, F., 58
Dehan, E., 14
De Keijser, M., 157
De Leeuw, D.M., 157
Dessaux, O., 119
Dettmer, K., 78
De Veirman, A.E.M., 157
Dew, S.K., 83
Dormans, G.J.M., 157

Edelman, F., 212
Englisch, U., 234

Fan, X.W., 307
Farkas, J., 238
Feigin, L.A., 69
Feng, Z.C., 1
Fessenden, R.W., 176
Friedrich, L.J., 83
Fukushima, H., 289

Gall, N.R., 229
García-Moliner, F., 38
Gengembre, L., 119
Gheyas, S.I., 168
Gierlotka, D., 113
Girija Vallabhan, C.P., 62
Goudmand, P., 119
Granqvist, C.G., 94
Grimblot, J., 119
Gupta, M., 219

Hafidi, K., 224
Henda, R., 14
Heydenreich, J., 212
Higuchi, K., 89
Hiroike, T., 292
Hofmann, D., 102
Höhne, U., 234
Hu, R., 1
Huang, D.-R., 282

Ichikawa, T., 263
Ijdiyaou, Y., 224
Ionov, R., 99
Islam, R., 215
Isomura, S., 106
Iyer, S.S., 212

Jacquet, M., 198
Jairath, R., 238
Janietz, D., 102
Jayakumar, S., 62

Kajioka, H., 89
Kessler, F.R., 78
Khasawinah, S., 278
Khomich, A.V., 278
Kim, D.-J., 192
Kim, H.-G., 140
Kim, H.-Y., 129
Kim, S., 205
Kim, Y.-W., 192
Kobayashi, K., 106
Koizumi, M., 182
Komem, Y., 212
Kulakowska-Pawlak, B., 8

Lahmar, A., 58
Laurent, J.-M., 20
Le Bellac, D., 94
Lee, J.-Y., 129
Lee, K.-Y., 129
Lemperiere, G., 267
León, H., 38
Li, W.S., 307
Li, Y.M., 307
Lin, C., 173
Loncierz, B., 274
Lu, Y.M., 307

Maekawa, A., 263
Majkrzak, C.F., 69
Mangalaraj, D., 62
Matsubara, T., 106
Matsushima, S., 106
Matyja, P., 113
Metikoš-Huković, M., 31
Miao, Y.B., 302
Michalski, A., 110
Miyashita, T., 292
Miyazaki, T., 292
Morgan, H., 289
Murri, R., 274
Mutel, B., 119

Nakasone, M., 89
Narayandass, Sa.K., 62
Neerinck, D.G., 157
Nguyen Tan, T.A., 224
Niedbała, J., 113
Nihei, M., 182
Niklasson, G.A., 94
Nishio, M., 168
Nishiyama, N., 263
Nowak, M., 258, 274

Oelhafen, P., 133
Ogata, T., 168
Ogawa, H., 168
Okada, G., 106
Omanović, S., 31
Onuki, J., 182
Ortega, L., 224

Parfitt, L.J., 52
Park, J.-H., 129
Patrat, G., 224
Pedroviejo, J.J., 14
Perov, P.I., 278
Pietsch, U., 234
Pocock, P., 96
Polyakov, V.I., 278
Popovici, G., 278
Prelas, M.A., 278

Radhakrishnan, K., 302
Rahman, L., 96
Ramarotafika, H., 267
Rao, D.R., 215
Rathi, V.K., 219
Reiche, J., 102
Rek, Z.U., 52
Richardson, T., 96
Richmond, T., 133
Ringsdorf, H., 289
Rossukanyi, N.M., 278
Roux, L., 245
Rukovishnikov, A.I., 278
Rump, E., 289
Rut'kov, E.V., 229

Scheid, E., 14
Schelz, S., 133
Schühler, N., 133
Scudeller, Y., 58
Serikawa, T., 263
Shen, D.Z., 307
Shi, X., 173
Shirakata, S., 106
Slominsky, Yu., 285
Smith, A., 20
Smith, D.S., 20
Smy, T., 83
Sobhanadri, J., 176
Sokolowska, A., 110
Subramanian, V., 176
Sung, T., 278
Surówka, J., 113
Swaminathan, S., 302

Taylor, D.M., 289
Temple-Boyer, P., 14
Thangaraj, R., 219
Thokala, R., 189
Tin, C.C., 1
Tkachev, V., 285
Tolmachev, A., 285
Tontegode, A.Ya., 229
Torregrosa, F., 245

Elsevier Science S.A.

Troitsky, V.I., 69
Tsunooka, M., 263

Uehara, K., 263

Van den
Meerakker, J.E.A.M., 145, 152
Van Veldhoven, P.J., 157
Velasco, V.R., 38
Vink, T.J., 145, 152

Walrave, W., 145, 152
Wang, B.-Y., 282
Wei, J., 48
Werner, P., 212
Wiesler, D.G., 69
Williams, J., 1
Willner, I., 254
Wode, S.-A., 78
Wu, K.-L., 282

Xin, H., 173
Xu, H., 173
Xue, Q., 48

Yalisove, S.M., 52
Yang, B.J., 307
Yoon, S.F., 302

Zhang, X., 48
Zou, S., 173
Żyrnicki, W., 8

ELSEVIER

Thin Solid Films 266 (1995) 313–317

thin solid films

Subject Index of Volume 266

Absorbance
minority carrier lifetime in thin films of Zn_3P_2 using microwave and optical transient measurements, 176
Adhesion
X-ray photoelectron spectroscopy analysis of thermal and plasma-treated steel substrates and their interface formed with an aluminium layer, 58
Adsorption
the tribological properties of ceramic coatings modified by molybdenum films under oil-lubricated conditions, 48
Aluminium
X-ray photoelectron spectroscopy analysis of thermal and plasma-treated steel substrates and their interface formed with an aluminium layer, 58
thin film microstructure modelling through line-segment simulation, 83
high-reliability interconnection formation by a two-step switching bias sputtering process, 182
Aluminium nitride
calculated elastic constants of wide band gap semiconductor thin films with a hexagonal crystal structure for stress problems, 189
Aluminium oxide
calculated elastic constants of wide band gap semiconductor thin films with a hexagonal crystal structure for stress problems, 189
study of thin alumina coatings sputtered on polyethylene terephthalate films, 198
Amorphous materials
transformation of amorphous $Si_{0.9}Ge_{0.1}$ and Si films by laser annealing, 78
Ni–P–NiO electrolytic layers as anode materials, 113
decomposition and modulated structure formation during amorphous $Si_{1-x}Ge_x$ crystallization, 212
Annealing
transformation of amorphous $Si_{0.9}Ge_{0.1}$ and Si films by laser annealing, 78
on the homogeneity of sputter-deposited ITO films. Part I. Stress and microstructure, 145
Anodic oxidation
Ni–P–NiO electrolytic layers as anode materials, 113

Boron
photovoltaic effects in metal/semiconductor barrier structures with boron-doped polycrystalline diamond films, 278
Boron nitride
photovoltaic cell with an a-cBN layer, 110
growth of cubic boron nitride thin films by a field-ionization source-assisted pulsed laser deposition, 173

Cadmium selenide
structural and optical properties of $CdSe_xTe_{1-x}$ thin films grown by electron beam evaporation, 215

Elsevier Science S.A.

Cadmium telluride
structural and optical properties of $CdSe_xTe_{1-x}$ thin films grown by electron beam evaporation, 215
Carbon
influence of surface carbon on the formation of silicon–refractory metal interfaces, 229
Carrier lifetime
minority carrier lifetime in thin films of Zn_3P_2 using microwave and optical transient measurements, 176
determining carrier lifetime using frequency dependence in contactless photoelectromagnetic investigations of semiconductors, 274
Chemical vapour deposition
Raman and Rutherford backscattering analyses of cubic SiC thin films grown on Si by vertical chemical vapor deposition, 1
preparation of *c*-axis oriented ZnO films by low-pressure organometallic chemical vapor deposition, 106
the structure of heteroepitaxial lead titanate layers grown by organometallic chemical vapour deposition, 157
effect of reactant depletion on the microstructure and preferred orientation of polycrystalline SiC films by chemical vapor deposition, 192
photo-processing of silicon nitride, 219
Coatings
study of thin alumina coatings sputtered on polyethylene terephthalate films, 198
Conduction
control of electron transfer direction in an organic two-layer diode based on a lightly-doped poly(3-methylthiophene)/9-fluorenone derivatives junction, 263
Copper
initial study on copper CMP slurry chemistries, 238
Crystallization
on the homogeneity of sputter-deposited ITO films. Part I. Stress and microstructure, 145
decomposition and modulated structure formation during amorphous $Si_{1-x}Ge_x$ crystallization, 212
J-aggregates of the thiatricarbocyanine dyes incorporated into LB films, 285

Depletion
effect of reactant depletion on the microstructure and preferred orientation of polycrystalline SiC films by chemical vapor deposition, 192
Deposition
comment on "Molecular organization of amphiphilic disc-shaped penta-alkynes in LB mono- and multilayers", D. Janietz, D. Hofmann and J. Reiche, *Thin Solid Films, 244* (1994) 794, 99
reply to comment on "Molecular organization of amphiphilic disc-shaped penta-alkynes in LB mono- and multilayers", 102

photovoltaic cell with an a-cBN layer, 110
low-temperature deposition of II–VI compound semiconductors by synchrotron radiation using metalorganic sources, 168
high-reliability interconnection formation by a two-step switching bias sputtering process, 182
deposition and characterization of $PbTiO_3$ thin films grown by radio frequency sputtering on MgO(100), 205
Diamond
photovoltaic effects in metal/semiconductor barrier structures with boron-doped polycrystalline diamond films, 278
photoluminescence of $ZnSe/Zn_{1-x}Cd_xSe$ strained superlattices under hydrostatic pressure, 307
Dielectric properties
structure and electrical properties of $Pb(Zr,Ti)O_3$ thin films deposited by reactive sputtering using multi-targets, 140
Diffusion
neutron and X-ray reflectivity study of Ba salts of alternating bilayers of deuterated and hydrogenated stearic acid, 69
Doping
photovoltaic effects in metal/semiconductor barrier structures with boron-doped polycrystalline diamond films, 278

Elastic properties
calculated elastic constants of wide band gap semiconductor thin films with a hexagonal crystal structure for stress problems, 189
Electrical properties and measurements
relation between solution chemistry and morphology of SnO_2-based thin films deposited by a pyrosol process, 20
structure and electrical properties of $Pb(Zr,Ti)O_3$ thin films deposited by reactive sputtering using multi-targets, 140
photovoltaic effects in metal/semiconductor barrier structures with boron-doped polycrystalline diamond films, 278
Electrochemistry
thin oxide films on indium: impedance spectroscopy investigation of reductive decomposition, 31
Ni–P–NiO electrolytic layers as anode materials, 113
Electromigration
high-reliability interconnection formation by a two-step switching bias sputtering process, 182
Electron transfer
control of electron transfer direction in an organic two-layer diode based on a lightly-doped poly(3-methylthiophene)/9-fluorenone derivatives junction, 263
Epitaxy
deposition and characterization of $PbTiO_3$ thin films grown by radio frequency sputtering on MgO(100), 205
Etching
on the homogeneity of sputter-deposited ITO films. Part II. Etching behaviour, 152

Ferroelectrics
the structure of heteroepitaxial lead titanate layers grown by organometallic chemical vapour deposition, 157
Field ionization
growth of cubic boron nitride thin films by a field-ionization source-assisted pulsed laser deposition, 173
Fourier transform infrared spectroscopy
growth of cubic boron nitride thin films by a field-ionization source-assisted pulsed laser deposition, 173

Gas chromatography
a study on the structural characterization of a-SiC:H films by the gas evolution method, 129
Germanium
decomposition and modulated structure formation during amorphous $Si_{1-x}Ge_x$ crystallization, 212
Glow discharge optical spectroscopy
characterization of a d.c. titanium tetraisopropoxide/H_2/N_2 plasma using emission spectroscopy, 8

Heteroepitaxy
the structure of heteroepitaxial lead titanate layers grown by organometallic chemical vapour deposition, 157
Heterostructures
a photoluminescence and X-ray diffraction analysis of InAlAs/InP heterostructures grown by molecular beam epitaxy, 302
Hydrogen
a study on the structural characterization of a-SiC:H films by the gas evolution method, 129

Impedance spectroscopy
thin oxide films on indium: impedance spectroscopy investigation of reductive decomposition, 31
Indium
thin oxide films on indium: impedance spectroscopy investigation of reductive decomposition, 31
a photoluminescence and X-ray diffraction analysis of InAlAs/InP heterostructures grown by molecular beam epitaxy, 302
Indium oxide
on the homogeneity of sputter-deposited ITO films. Part I. Stress and microstructure, 145
Indium tin oxide
on the homogeneity of sputter-deposited ITO films. Part II. Etching behaviour, 152
patterning of surfaces by photoisomerizable antibody–antigen monolayers, 254
Infrared spectroscopy
angular selectivity of the infrared transmittance through obliquely sputter-deposited Ti-oxide-based films, 94
fabrication of ferrous stearate multilayer films by the Langmuir–Blodgett method, 292
Interfaces
thin oxide films on indium: impedance spectroscopy investigation of reductive decomposition, 31
electron–phonon interaction and low-field drift mobility in a polar semiconductor quantum well, 38
influence of surface carbon on the formation of silicon–refractory metal interfaces, 229
investigation of the chain–chain interface in a lead-stearate multilayer using neutron reflectivity, 234
X-ray photoelectron study of TiN/SiO_2 and TiN/Si interfaces, 298
Ion implantation
phase analysis, microhardness and tribological behaviour of Ti–6Al–4V after ion implantation of nitrogen in connection with its application for hip-joint prosthesis, 245
Ion plating
waveforms of arc-like Ti vapor discharge current and voltage, 89

Langmuir–Blodgett films
neutron and X-ray reflectivity study of Ba salts of alternating bilayers of deuterated and hydrogenated stearic acid, 69
a novel technique for the preparation of Langmuir–Blodgett films, 96
comment on "Molecular organization of amphiphilic disc-shaped penta-alkynes in LB mono- and multilayers", D. Janietz, D. Hofmann and J. Reiche, *Thin Solid Films, 244* (1994) 794, 99

reply to comment on "Molecular organization of amphiphilic disc-shaped penta-alkynes in LB mono- and multilayers", 102
investigation of the chain–chain interface in a lead-stearate multilayer using neutron reflectivity, 234
J-aggregates of the thiatricarbocyanine dyes incorporated into LB films, 285
the specific adsorption of streptavidin to a tetrabiotinylated porphyrin monolayer at the air–water interface, 289
Laser ablation
growth of cubic boron nitride thin films by a field-ionization source-assisted pulsed laser deposition, 173
Laser irradiation
optical recording characteristics of Sb_2Se_3 thin films using a CW–Ar^+ laser, 62
Luminescence
photoluminescence of $ZnSe/Zn_{1-x}Cd_xSe$ strained superlattices under hydrostatic pressure, 307

Magnetic properties and measurements
fabrication of ferrous stearate multilayer films by the Langmuir–Blodgett method, 292
Magnetization
quantitative determination of the oxygen partial pressure effect on the perpendicular magnetization of TbFeCo thin films, 282
Metallization
characterization of mixed zinc-oxidized zinc thin films deposited by a cold remote nitrogen plasma, 119
high-reliability interconnection formation by a two-step switching bias sputtering process, 182
Microhardness
phase analysis, microhardness and tribological behaviour of Ti–6Al–4V after ion implantation of nitrogen in connection with its application for hip-joint prosthesis, 245
Microstructure
microstructure and residual stress of very thin Mo films, 52
Microwave methods
minority carrier lifetime in thin films of Zn_3P_2 using microwave and optical transient measurements, 176
Molecular structure
comment on "Molecular organization of amphiphilic disc-shaped penta-alkynes in LB mono- and multilayers", D. Janietz, D. Hofmann and J. Reiche, *Thin Solid Films, 244* (1994) 794, 99
reply to comment on "Molecular organization of amphiphilic disc-shaped penta-alkynes in LB mono- and multilayers", 102
Molybdenum
the tribological properties of ceramic coatings modified by molybdenum films under oil-lubricated conditions, 48
Monolayers
patterning of surfaces by photoisomerizable antibody–antigen monolayers, 254
the specific adsorption of streptavidin to a tetrabiotinylated porphyrin monolayer at the air–water interface, 289
Multilayers
a novel technique for the preparation of Langmuir–Blodgett films, 96
fabrication of ferrous stearate multilayer films by the Langmuir–Blodgett method, 292

Nanostructures
electron–phonon interaction and low-field drift mobility in a polar semiconductor quantum well, 38
the specific adsorption of streptavidin to a tetrabiotinylated porphyrin monolayer at the air–water interface, 289
Neutron scattering
neutron and X-ray reflectivity study of Ba salts of alternating bilayers of deuterated and hydrogenated stearic acid, 69
investigation of the chain–chain interface in a lead-stearate multilayer using neutron reflectivity, 234
Nickel oxide
Ni–P–NiO electrolytic layers as anode materials, 113

Optical coating
relation between solution chemistry and morphology of SnO_2-based thin films deposited by a pyrosol process, 20
Optical properties
optical and structural properties of SiO_x and SiN_x materials, 14
optical recording characteristics of Sb_2Se_3 thin films using a CW–Ar^+ laser, 62
structural and optical properties of $CdSe_xTe_{1-x}$ thin films grown by electron beam evaporation, 215
linear distribution of intensity of radiation reflected from and transmitted through a thin film on a thick substrate, 258
Optical spectroscopy
transformation of amorphous $Si_{0.9}Ge_{0.1}$ and Si films by laser annealing, 78
minority carrier lifetime in thin films of Zn_3P_2 using microwave and optical transient measurements, 176
linear distribution of intensity of radiation reflected from and transmitted through a thin film on a thick substrate, 258
J-aggregates of the thiatricarbocyanine dyes incorporated into LB films, 285
Organic substances
comment on "Molecular organization of amphiphilic disc-shaped penta-alkynes in LB mono- and multilayers", D. Janietz, D. Hofmann and J. Reiche, *Thin Solid Films, 244* (1994) 794, 99
reply to comment on "Molecular organization of amphiphilic disc-shaped penta-alkynes in LB mono- and multilayers", 102
control of electron transfer direction in an organic two-layer diode based on a lightly-doped poly(3-methylthiophene)/9-fluorenone derivatives junction, 263
Organometallic vapour deposition
characterization of a d.c. titanium tetraisopropoxide/H_2/N_2 plasma using emission spectroscopy, 8
preparation of *c*-axis oriented ZnO films by low-pressure organometallic chemical vapor deposition, 106
Orientation
effect of reactant depletion on the microstructure and preferred orientation of polycrystalline SiC films by chemical vapor deposition, 192
Oxygen
quantitative determination of the oxygen partial pressure effect on the perpendicular magnetization of TbFeCo thin films, 282

Partial pressure
quantitative determination of the oxygen partial pressure effect on the perpendicular magnetization of TbFeCo thin films, 282
Patterning
patterning of surfaces by photoisomerizable antibody–antigen monolayers, 254
Phase analysis
phase analysis, microhardness and tribological behaviour of Ti–6Al–4V after ion implantation of nitrogen in connection with its application for hip-joint prosthesis, 245

Phase transitions
optical recording characteristics of Sb_2Se_3 thin films using a CW–Ar^+ laser, 62
decomposition and modulated structure formation during amorphous $Si_{1-x}Ge_x$ crystallization, 212
photoluminescence of $ZnSe/Zn_{1-x}Cd_xSe$ strained superlattices under hydrostatic pressure, 307
Photoelectromagnetic effect
determining carrier lifetime using frequency dependence in contactless photoelectromagnetic investigations of semiconductors, 274
Photoelectron spectroscopy
surface study of plasma- and UV-polymerized styrene films using scanning force microscopy and in-situ photoelectron spectroscopy, 133
Photoluminescence
a photoluminescence and X-ray diffraction analysis of InAlAs/InP heterostructures grown by molecular beam epitaxy, 302
Photo-processing
photo-processing of silicon nitride, 219
Photovoltage
photovoltaic cell with an a-cBN layer, 110
Physical vapour deposition
thin film microstructure modelling through line-segment simulation, 83
waveforms of arc-like Ti vapor discharge current and voltage, 89
Plasma processing and deposition
characterization of a d.c. titanium tetraisopropoxide/H_2/N_2 plasma using emission spectroscopy, 8
waveforms of arc-like Ti vapor discharge current and voltage, 89
photovoltaic cell with an a-cBN layer, 110
characterization of mixed zinc-oxidized zinc thin films deposited by a cold remote nitrogen plasma, 119
surface study of plasma- and UV-polymerized styrene films using scanning force microscopy and in-situ photoelectron spectroscopy, 133
Polishing
initial study on copper CMP slurry chemistries, 238
Polymers
surface study of plasma- and UV-polymerized styrene films using scanning force microscopy and in-situ photoelectron spectroscopy, 133
study of thin alumina coatings sputtered on polyethylene terephthalate films, 198

Radiation
low-temperature deposition of II–VI compound semiconductors by synchrotron radiation using metalorganic sources, 168
Raman scattering
Raman and Rutherford backscattering analyses of cubic SiC thin films grown on Si by vertical chemical vapor deposition, 1
Rectification
control of electron transfer direction in an organic two-layer diode based on a lightly-doped poly(3-methylthiophene)/9-fluorenone derivatives junction, 263
Reflection spectroscopy
linear distribution of intensity of radiation reflected from and transmitted through a thin film on a thick substrate, 258
Residual stress
microstructure and residual stress of very thin Mo films, 52
R.f. magnetron sputtering
influence of a d.c. substrate bias on the resistivity, composition, crystallite size and microstrain of WTi and WTi–N films, 267
Rutherford backscattering spectroscopy
Raman and Rutherford backscattering analyses of cubic SiC thin films grown on Si by vertical chemical vapor deposition, 1

Semiconductors
low-temperature deposition of II–VI compound semiconductors by synchrotron radiation using metalorganic sources, 168
determining carrier lifetime using frequency dependence in contactless photoelectromagnetic investigations of semiconductors, 274
photovoltaic effects in metal/semiconductor barrier structures with boron-doped polycrystalline diamond films, 278
Silicon
decomposition and modulated structure formation during amorphous $Si_{1-x}Ge_x$ crystallization, 212
the formation of sputtered Ta/a-Si and a-Si/Ta interfaces in a-Si/Ta/a-Si/c-Si structure, 224
influence of surface carbon on the formation of silicon–refractory metal interfaces, 229
Silicon carbide
Raman and Rutherford backscattering analyses of cubic SiC thin films grown on Si by vertical chemical vapor deposition, 1
a study on the structural characterization of a-SiC:H films by the gas evolution method, 129
calculated elastic constants of wide band gap semiconductor thin films with a hexagonal crystal structure for stress problems, 189
effect of reactant depletion on the microstructure and preferred orientation of polycrystalline SiC films by chemical vapor deposition, 192
Silicon nitrides
optical and structural properties of SiO_x and SiN_x materials, 14
photo-processing of silicon nitride, 219
Silicon oxide
optical and structural properties of SiO_x and SiN_x materials, 14
X-ray photoelectron study of TiN/SiO_2 and TiN/Si interfaces, 298
Sputter deposition
angular selectivity of the infrared transmittance through obliquely sputter-deposited Ti-oxide-based films, 94
on the homogeneity of sputter-deposited ITO films. Part II. Etching behaviour, 152
Sputtering
structure and electrical properties of $Pb(Zr,Ti)O_3$ thin films deposited by reactive sputtering using multi-targets, 140
study of thin alumina coatings sputtered on polyethylene terephthalate films, 198
deposition and characterization of $PbTiO_3$ thin films grown by radio frequency sputtering on MgO(100), 205
Steel
X-ray photoelectron spectroscopy analysis of thermal and plasma-treated steel substrates and their interface formed with an aluminium layer, 58
Strain
the structure of heteroepitaxial lead titanate layers grown by organometallic chemical vapour deposition, 157
Stress
on the homogeneity of sputter-deposited ITO films. Part I. Stress and microstructure, 145
Structural characteristics
a study on the structural characterization of a-SiC:H films by the gas evolution method, 129

deposition and characterization of $PbTiO_3$ thin films grown by radio frequency sputtering on MgO(100), 205
Structural properties
optical and structural properties of SiO_x and SiN_x materials, 14
optical recording characteristics of Sb_2Se_3 thin films using a CW–Ar^+ laser, 62
structure and electrical properties of $Pb(Zr,Ti)O_3$ thin films deposited by reactive sputtering using multi-targets, 140
structural and optical properties of $CdSe_xTe_{1-x}$ thin films grown by electron beam evaporation, 215
Superlattices
photoluminescence of $ZnSe/Zn_{1-x}Cd_xSe$ strained superlattices under hydrostatic pressure, 307
Surface diffusion
thin film microstructure modelling through line-segment simulation, 83
Surface melting
transformation of amorphous $Si_{0.9}Ge_{0.1}$ and Si films by laser annealing, 78
Surface morphology
relation between solution chemistry and morphology of SnO_2-based thin films deposited by a pyrosol process, 20
Surface roughness
surface study of plasma- and UV-polymerized styrene films using scanning force microscopy and in-situ photoelectron spectroscopy, 133

Tantalum
the formation of sputtered Ta/a-Si and a-Si/Ta interfaces in a-Si/Ta/a-Si/c-Si structure, 224
Tin oxide
relation between solution chemistry and morphology of SnO_2-based thin films deposited by a pyrosol process, 20
Titanium
waveforms of arc-like Ti vapor discharge current and voltage, 89
the structure of heteroepitaxial lead titanate layers grown by organometallic chemical vapour deposition, 157
Titanium nitride
X-ray photoelectron study of TiN/SiO_2 and TiN/Si interfaces, 298
Titanium oxide
angular selectivity of the infrared transmittance through obliquely sputter-deposited Ti-oxide-based films, 94
Transmittance
angular selectivity of the infrared transmittance through obliquely sputter-deposited Ti-oxide-based films, 94
Tribology
the tribological properties of ceramic coatings modified by molybdenum films under oil-lubricated conditions, 48
phase analysis, microhardness and tribological behaviour of Ti–6Al–4V after ion implantation of nitrogen in connection with its application for hip-joint prosthesis, 245

Wetting
thin film microstructure modelling through line-segment simulation, 83
WTi films
influence of a d.c. substrate bias on the resistivity, composition, crystallite size and microstrain of WTi and WTi–N films, 267
WTi–N films
influence of a d.c. substrate bias on the resistivity, composition, crystallite size and microstrain of WTi and WTi–N films, 267

X-ray diffraction
comment on "Molecular organization of amphiphilic disc-shaped penta-alkynes in LB mono- and multilayers", D. Janietz, D. Hofmann and J. Reiche, *Thin Solid Films, 244* (1994) 794, 99
reply to comment on "Molecular organization of amphiphilic disc-shaped penta-alkynes in LB mono- and multilayers", 102
fabrication of ferrous stearate multilayer films by the Langmuir–Blodgett method, 292
a photoluminescence and X-ray diffraction analysis of InAlAs/InP heterostructures grown by molecular beam epitaxy, 302
X-ray photoelectron spectroscopy
X-ray photoelectron spectroscopy analysis of thermal and plasma-treated steel substrates and their interface formed with an aluminium layer, 58
characterization of mixed zinc-oxidized zinc thin films deposited by a cold remote nitrogen plasma, 119
the formation of sputtered Ta/a-Si and a-Si/Ta interfaces in a-Si/Ta/a-Si/c-Si structure, 224
X-ray photoelectron study of TiN/SiO_2 and TiN/Si interfaces, 298
X-ray scattering
neutron and X-ray reflectivity study of Ba salts of alternating bilayers of deuterated and hydrogenated stearic acid, 69
investigation of the chain–chain interface in a lead-stearate multilayer using neutron reflectivity, 234
X-ray total reflection
the formation of sputtered Ta/a-Si and a-Si/Ta interfaces in a-Si/Ta/a-Si/c-Si structure, 224

Zinc
low-temperature deposition of II–VI compound semiconductors by synchrotron radiation using metalorganic sources, 168
Zinc oxide
preparation of *c*-axis oriented ZnO films by low-pressure organometallic chemical vapor deposition, 106
characterization of mixed zinc-oxidized zinc thin films deposited by a cold remote nitrogen plasma, 119